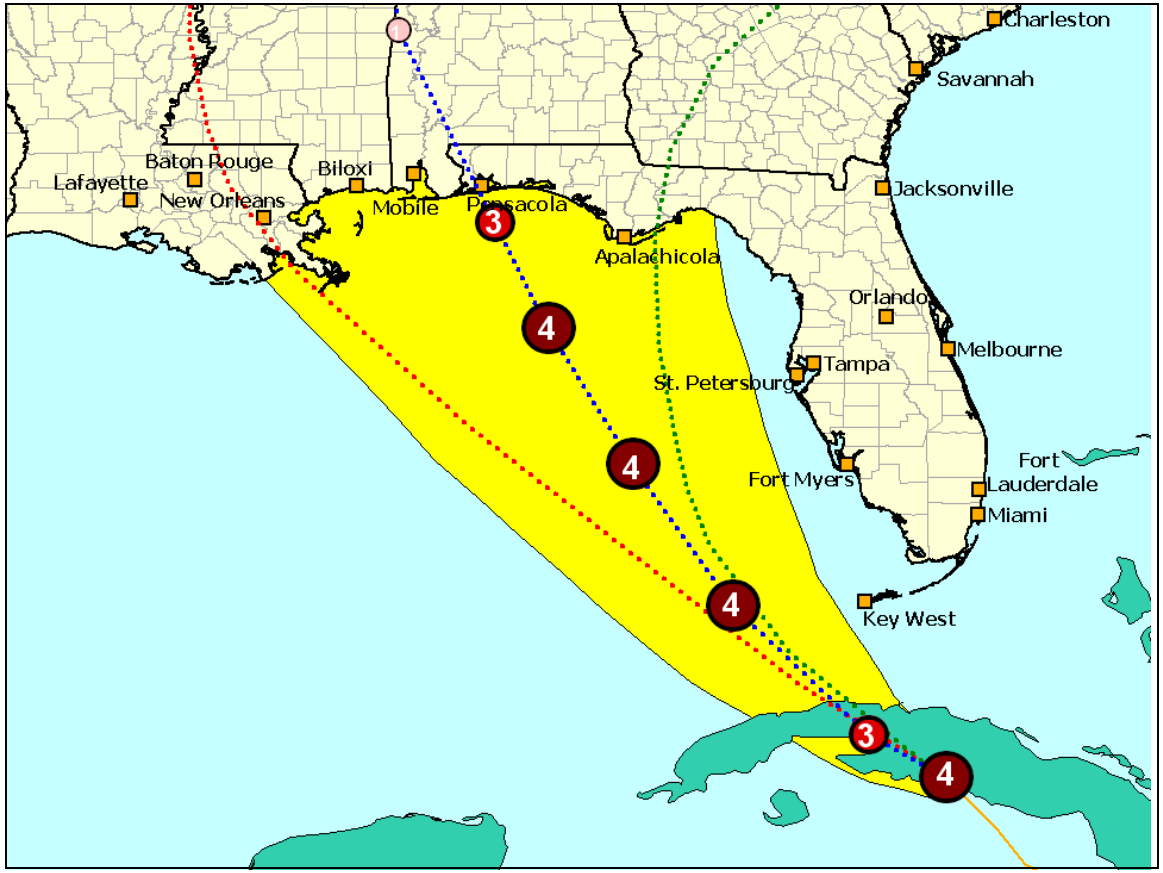
Hurricane Dennis Composite Results

Landfall Expected Within *2* Days

For Official Use Only!



Information provided on the following pages display the most probable hurricane track based on information from the National Hurricane Center (NHC) and **2** alternate possible scenarios. These projections are based on information from the NHC (1400 – 07/08/2005) forecast.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Probable Landfall Zone

Historic Track

Model Tracks

Least Damage Track

Most Damage Track

NHC Forecast Track

Tropical Storm

Category 1 Hurricane

Category 2 Hurricane

Category 3 Hurricane

Category 4 Hurricane

US Army Corps of Engineers

urricane Dennis Composite

Sources:
HURREVAC
LRL-DEBRIS

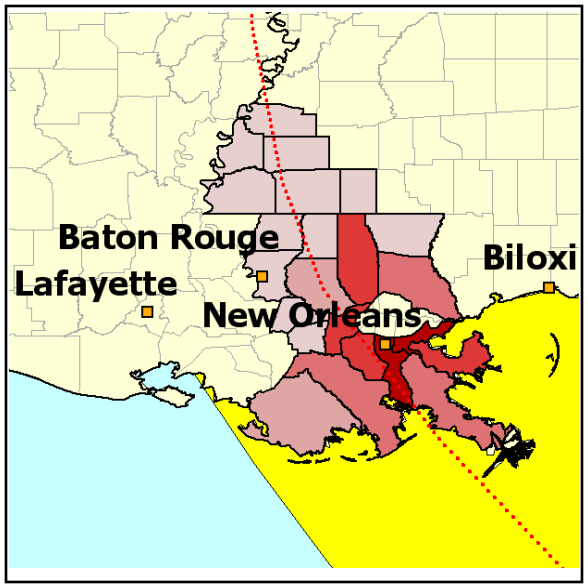
Generated By:
Terry Siemsen

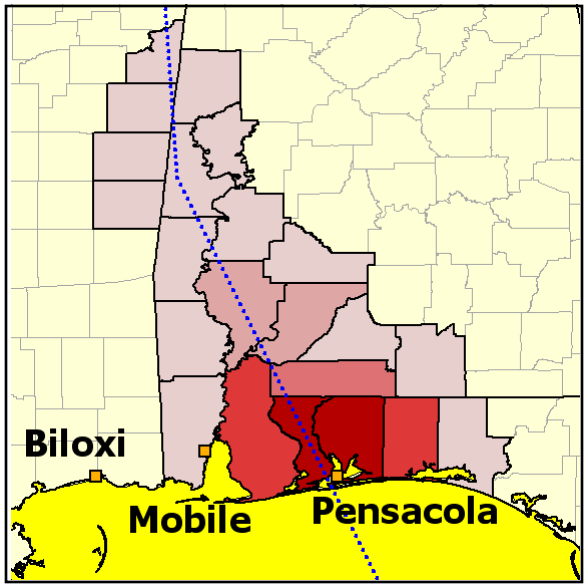
Generated Date:
1500 EDT
07/08/2005

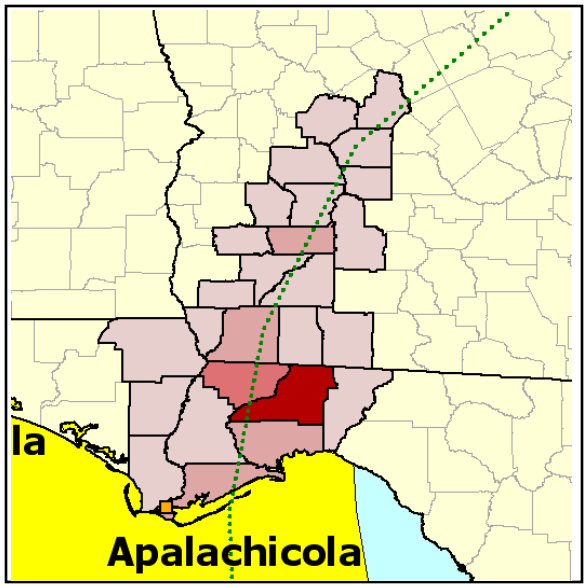
Hurricane Dennis Debris Model Results

Landfall Expected Within *2* Days

For Official Use Only!







Maximum Damage Results

Louisiana – 19,256,000 yd³
Mississippi – 540,000 yd³

NHC Forecast Track Results

Florida – 10,562,000 yd³
Alabama – 2,156,000 yd³
Mississippi – 65,000 yd³

Minimum Damage Results

Florida – 2,310,000 yd³
Georgia – 629,000 yd³

The amount of debris forecasted is a possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Model Debris Volumes

- 0 - 99,999 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

US Army Corps of Engineers

urricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

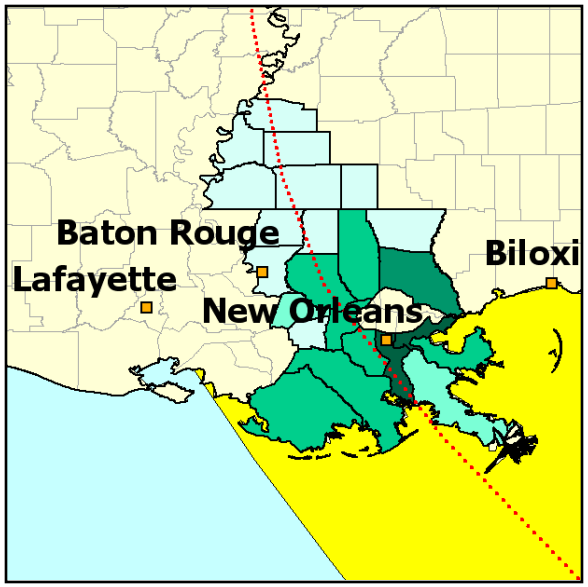
Generated By:
Terry Siemsen

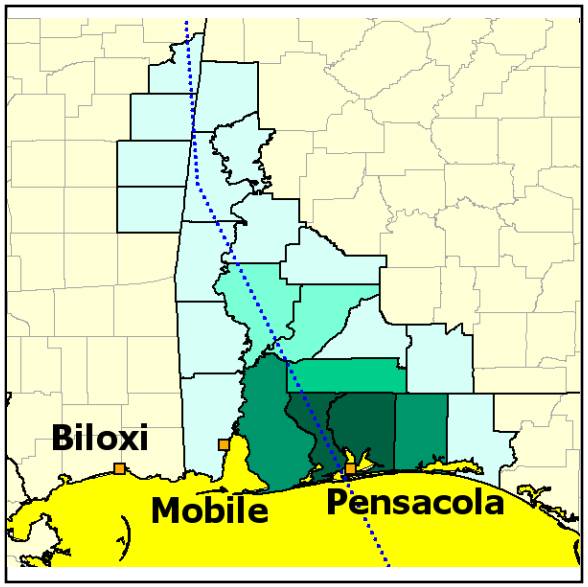
Generated Date:
1500 EDT
07/08/2005

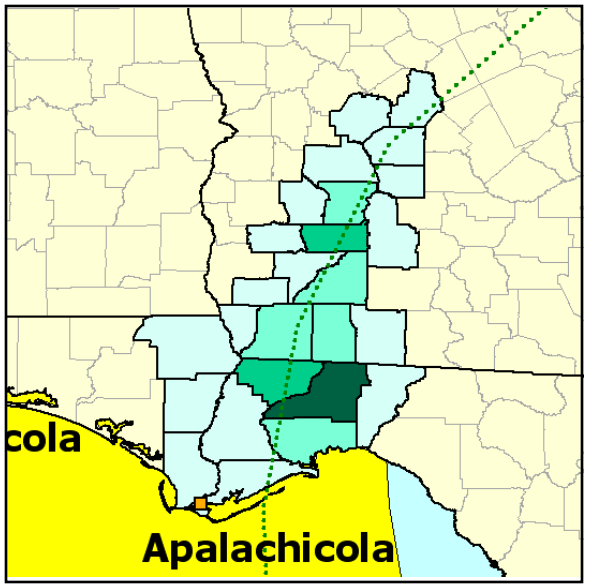
Hurricane Dennis Ice Model Results

Landfall Expected Within *2* Days

For Official Use Only!







Maximum Damage Results

Louisiana – 4,890,000 pounds
Mississippi – 89,000 pounds

NHC Forecast Track Results

Florida – 2,303,000 pounds
Alabama – 871,000 pounds
Mississippi – 32,000 pounds

Minimum Damage Results

Florida – 903,000 pounds
Georgia – 542,000 pounds

The amount of ice forecasted is based on Mission Guide Book requirements and Ice SME input and represents a **first day daily need**. The assumption in this scenario is that 60 % of the resident population in the Cat 3 or greater wind area will require ice assistance and 30% of those in Cat1 or Cat 2 wind area will require ice after landfall.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Model Ice Volumes

- 0 - 49,999 pounds
- 50,000 - 99,999 pounds
- 100,000 - 249,999 pounds
- 250,000 - 499,999 pounds
- > 500,000 pounds

US Army Corps of Engineers

urricane Dennis Ice Model

Sources: HURREVAC LRL-DEBRIS

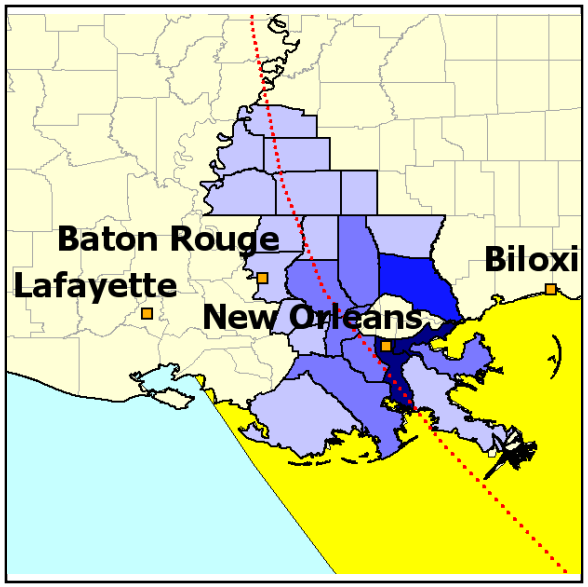
Generated By: Terry Siemsen

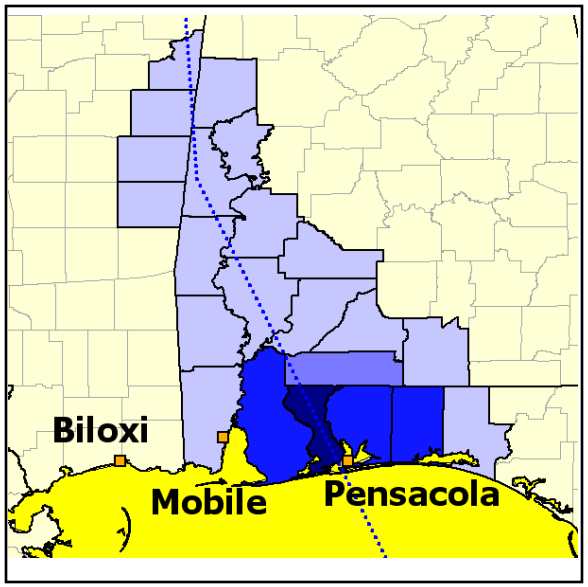
Generated Date: 1500 EDT 07/08/2005

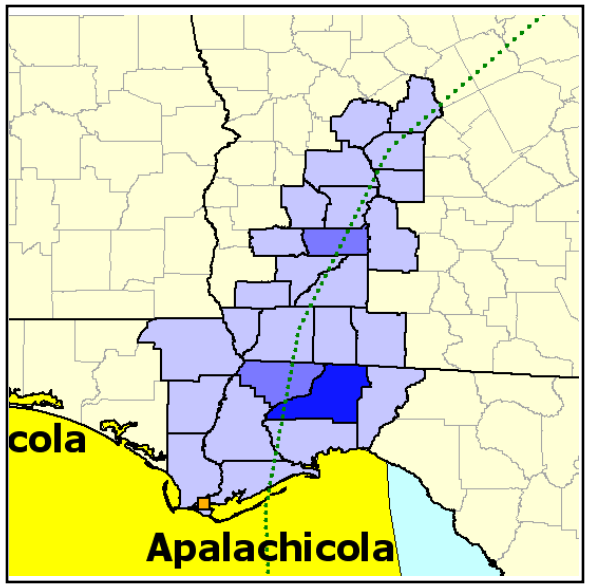
Hurricane Dennis Water Model Results

Landfall Expected Within *2* Days

For Official Use Only!







Maximum Damage Results

Louisiana – 2,154,000 Liters
Mississippi – 205,000 Liters

NHC Forecast Track Results

Florida – 884,000 Liters
Alabama – 303,000 Liters
Mississippi – 13,000 Liters

Minimum Damage Results

Florida – 339,000 Liters
Georgia – 224,000 Liters

The amount of water forecasted is based on Mission Guide Book requirements (three liters per day) and Water SME input and represents a **first day daily need**. The assumption in this scenario is that 60% of the resident population in the Cat 3 or greater wind area will require water assistance 30% of those in Cat 1or 2 wind areas will require water after landfall.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Model Water Volumes

- 0 - 49,999 liters
- 50,000 - 99,999 liters
- 100,000 - 249,999 liters
- 250,000 - 499,999 liters
- > 500,000 liters

US Army Corps of Engineers

urricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1500 EDT
07/08/2005

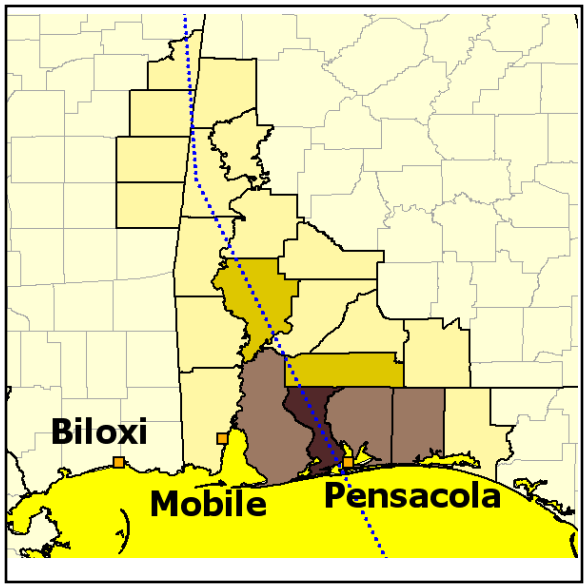
Hurricane Dennis Population Model Results

Landfall Expected Within *2* Days

For Official Use Only!

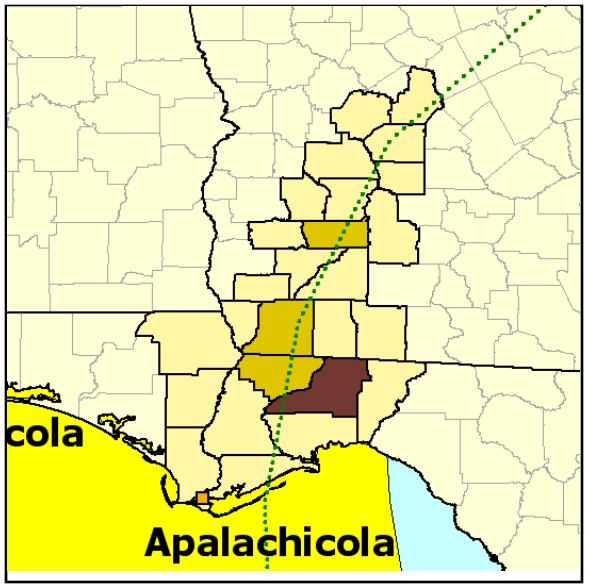
Maximum Damage Results

Louisiana – 1,549,000 persons
Mississippi – 37,000 persons



NHC Forecast Track Results

Florida – 573,000 persons
Alabama – 289,000 persons
Mississippi – 9,000 persons



Minimum Damage Results

Florida – 345,000 persons
Georgia – 229,000 persons

The population forecasted is based on the number of persons (2000 Census) that are included in an area estimated to receive hurricane force winds.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Model Population Estimates

	0
	1 - 24,999
	25,000 - 99,999
	100,000 - 174,999
	175,000 - 249,999
	> 250,000

US Army Corps of Engineers

urricane Dennis opulation Model

Sources:
HURREVAC
LRL-DEBRIS

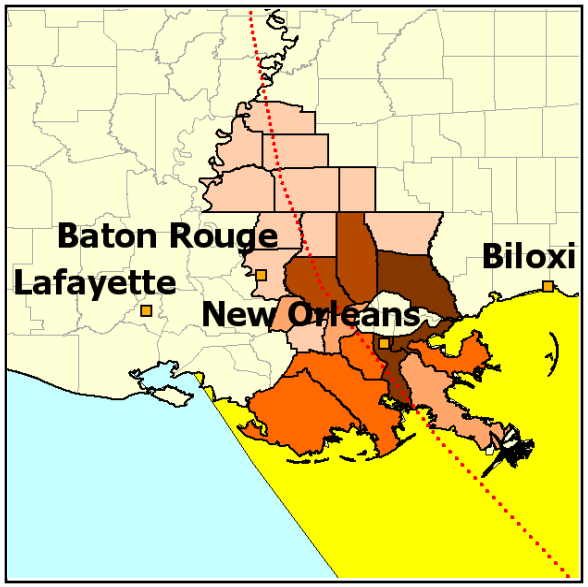
Generated By:
Terry Siemsen

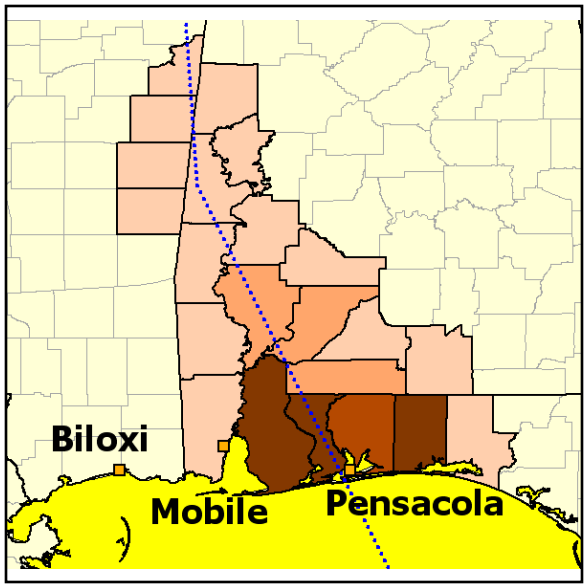
Generated Date:
1500 EDT
07/08/2005

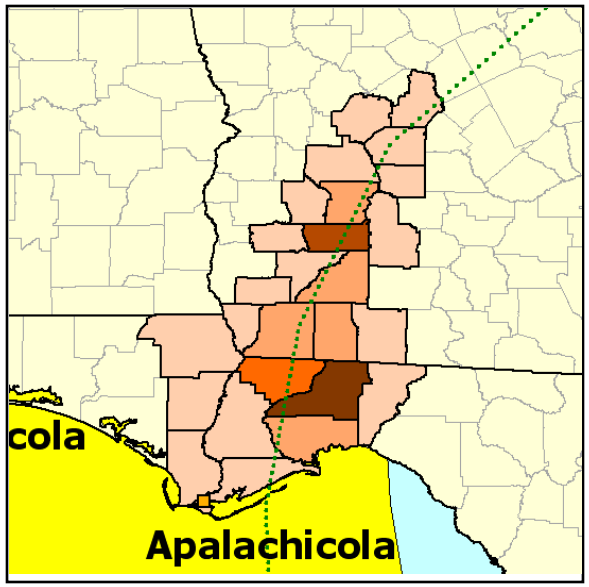
Hurricane Dennis Households Model Results

Landfall Expected Within *2* Days

For Official Use Only!







Maximum Damage Results

Louisiana – 579,000
Mississippi – 13,000

NHC Forecast Track Results

Florida – 219,000
Alabama – 114,000
Mississippi – 5,000

Minimum Damage Results

Florida – 134,000
Georgia – 85,000

The number of households forecasted is based on the households (2000 Census) that are included in an area estimated to receive hurricane force winds.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Model Households Estimates

	0
	1 - 7,499
	7,500 - 14,999
	15,000 - 24,999
	25,000 - 49,999
	> 50,000

US Army Corps of Engineers

urricane Dennis
useholds Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1500 EDT
07/08/2005